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## IN THE CLAIMS

- 1. A method for securely transmitting a data message, comprising the steps of: obtaining a first encrypting key;
- generating a second encrypting key as a function of the first encrypting key and as a function of an identified parameter;

encrypting the data message using the second encrypting key to generate an encrypted data message; and

transmitting the encrypted data message.

- 10 2. The method of claim 1, wherein the encrypting step corresponds to a public key encryption scheme.
  - 3. The method of claim 2, wherein the encryption scheme is an RSA scheme.
  - 4. The method of claim 1, wherein the encrypting step corresponds to a private key encryption scheme.
  - 5. The method of claim 4, wherein the encryption scheme is a DES scheme.
  - 6. The method of claim 1, wherein the identified parameter is a time or time-dependent value.
  - 7. The method of claim 1, wherein the identified parameter is a randomly generated number.
  - 8. The method of claim 1, further comprising: receiving the encrypted data message; obtaining a first decryption key;
- generating a second decrypting key as a function of the first decrypting key and as a function of the identified parameter;

decrypting the encrypted data message using the second decrypting key to recover the data message.

9. A method for securely receiving a data message, comprising the steps of:

obtaining a first decrypting key;

generating a second decrypting key as a function of the first decrypting key and as a function of an identified parameter;

decrypting the data message using the second decrypting key to generate the data 5 message.

- 10. The method of claim 9, wherein the decrypting step corresponds to a public key encryption scheme.
- 10 11. The method of claim 10, wherein the encryption scheme is an RSA scheme.
  - 12. The method of claim 9, wherein the decrypting step corresponds to a private key encryption scheme.
  - 13. The method of claim 12, wherein the encryption scheme is a DES scheme.
  - 14. The method of claim 9, wherein the identified parameter is a time or time-dependent value.
  - 15. The method of claim 9, wherein the identified parameter is a randomly generated number.
  - 16. The method of claim 9, wherein the encrypted data message is generated by a method comprising the steps of:
- obtaining a first encrypting key;

generating a second encrypting key as a function of the first encrypting key and as a function of an identified parameter;

encrypting the data message using the second encrypting key to generate an encrypted data message; and

- 30 transmitting the encrypted data message.
  - 17. A communication system for securely transmitting a data message, comprising: a memory;
    - a processor configured to execute the steps comprising:

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obtaining a first encrypting key;

generating a second encrypting key as a function of the first encrypting key and as a function of an identified parameter;

encrypting the data message using the second encrypting key to generate an encrypted data message; and

a transmitter for transmitting the encrypted data message.

- 18. The communication system of claim 17, wherein the encrypting step corresponds to a public key encryption scheme.
- 19. The communication system of claim 18, wherein the encryption scheme is an RSA scheme.
- 20. The communication system of claim 17, wherein the encrypting step corresponds to a private key encryption scheme.
- 21. The communication system of claim 20, wherein the encryption scheme is a DES scheme.
- 22. The communication system of claim 17, wherein the identified parameter is a time or time-dependent value.
- 23. The communication system of claim 17, wherein the identified parameter is a randomly generated number.
- 24. The communication system of claim 17, further comprising a receiver configured to receive the encrypted data message and wherein a second processor is configured to execute the steps comprising:

obtaining a first decryption key;

generating a second decrypting key as a function of the first decrypting key and as a function of the identified parameter;

decrypting the encrypted data message using the second decrypting key to recover the data message.

- 25. A communication system for securely receiving a data message, comprising: a memory;
  - a receiver configured to receive an encrypted data message; and
  - a processor configured to execute the steps comprising:

obtaining a first decrypting key;

generating a second decrypting key as a function of the first decrypting key and as a function of an identified parameter; and

decrypting the data message using the second decrypting key to generate the data message.

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- 26. The communication system of claim 25, wherein the decrypting step corresponds to a public key encryption scheme.
- 27. The communication system of claim 26, wherein the encryption scheme is an RSA scheme.
- 28. The communication system of claim 25, wherein the decrypting step corresponds to a private key encryption scheme.
- 29. The communication system of claim 28, wherein the encryption scheme is a DES scheme.
- 30. The communication system of claim 25, wherein the identified parameter is a time or time-dependent value.

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- 31. The communication system of claim 25, wherein the identified parameter is a randomly generated number.
- 32. The communication system of claim 25, further comprising a transmitter configured to transmit the encrypted data message and wherein a second processor is configured to execute the steps comprising:

obtaining a first encrypting key;

generating a second encrypting key as a function of the first encrypting key and as a function of an identified parameter;

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encrypting the data message using the second encrypting key to generate an encrypted data message.

33. A method for securely transmitting a data message, comprising the steps of: obtaining a first array of encrypting keys;

generating a second array of encrypting keys as a function of the first encrypting key and as a function of an identified parameter;

encrypting the data message using the second array of encrypting keys to generate an encrypted data message; and

transmitting the encrypted data message.

- 34. The method of claim 33, wherein the encrypting step corresponds to a public key encryption scheme.
- 35. The method of claim 34, wherein the encryption scheme is an RSA scheme.
- 36. The method of claim 33, wherein the encrypting step corresponds to a private key encryption scheme.
- 37. The method of claim 36, wherein the encryption scheme is a DES scheme.
- 38. The method of claim 33, wherein the identified parameter is a time or time-dependent value.
- 25 39. The method of claim 33, wherein the identified parameter is a randomly generated number.
  - 40. The method of claim 33, further comprising: receiving the encrypted data message;
- 30 obtaining a first array of decryption keys;

generating a second array of decrypting keys as a function of the first decrypting key and as a function of the identified parameter;

decrypting the encrypted data message using the second array of decrypting keys to recover the data message.